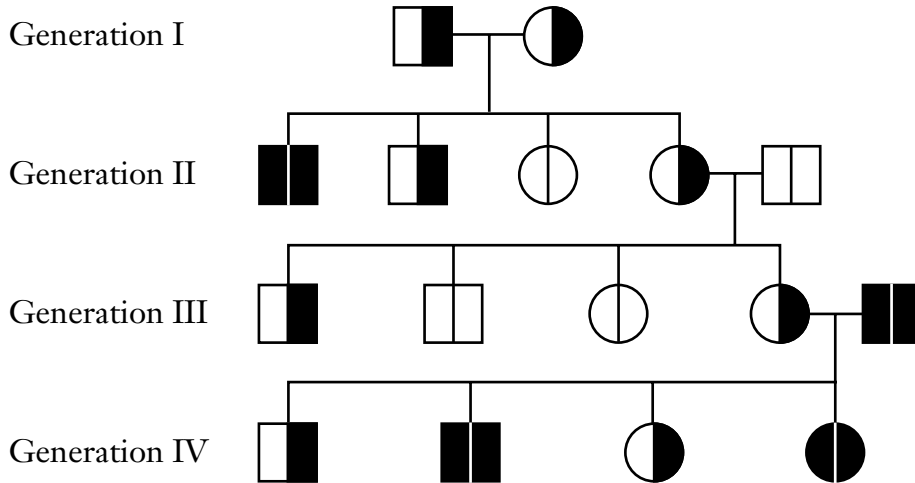


CHAPTER 14 PATTERNS OF HEREDITY

Section 14.2 Applied Genetics

Analyze the Pedigree

Below is a pedigree for a group of dogs. Some of the dogs in this group are tall, some are short. Some are tall, but carry the recessive short trait.



White = Tall Dominant

Black = Short Recessive

□ Male

○ Female

- How many generations are shown in the pedigree? _____
- How many offspring did the parents in the first generation have? _____
- What does the square in generation I stand for? Why is it half shaded? _____

- Which dog was the first in the family to be short? _____
- A female dog from generation III has four puppies. How many of these offspring carry the short trait? How many of the offspring are short? _____